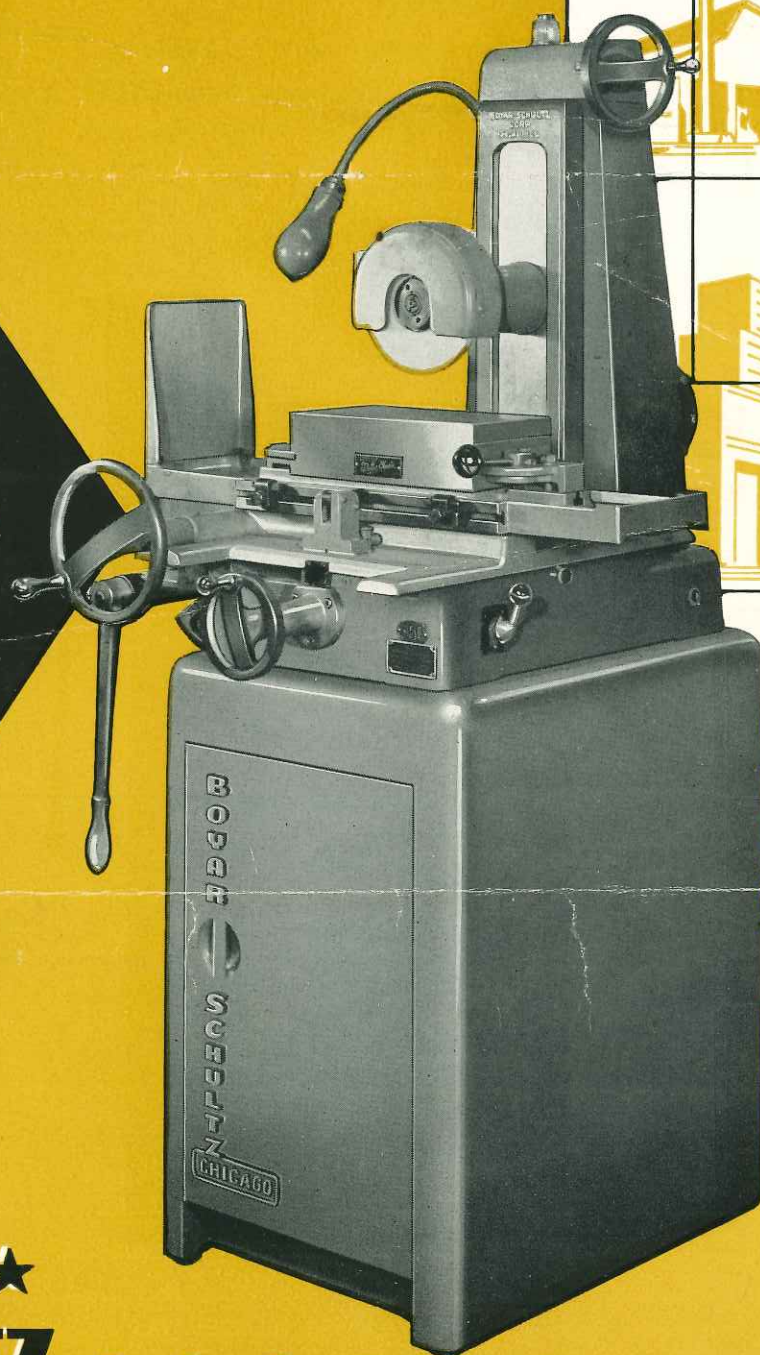


model

6★12

surface grinder

**big
machine
Performance
small
machine
Cost**



BOYAR★

SCHULTZ

C O R P O R A T I O N

MODEL 6-12

SURFACE GRINDER

Big

A REAL PRECISION MACHINE TOOL providing the close tolerance performance that has always been associated with larger, more costly grinders.

This Model 6-12 Surface Grinder has demonstrated time after time that it is capable of handling a large percentage of the work ordinarily being done on the larger machines.

Because the first cost is so low . . . and the quality of performance is so high . . . it is real economy to place several Model 6-12 grinders at strategic positions in your tool room where they are quickly available.

Many users tell us they are able to obtain with this Grinder, flatness, horizontal and vertical tolerances that compare with any other precision surface grinder, regardless of size.

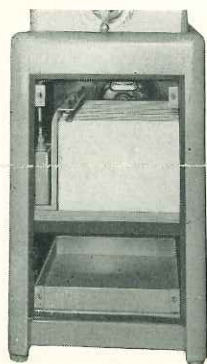
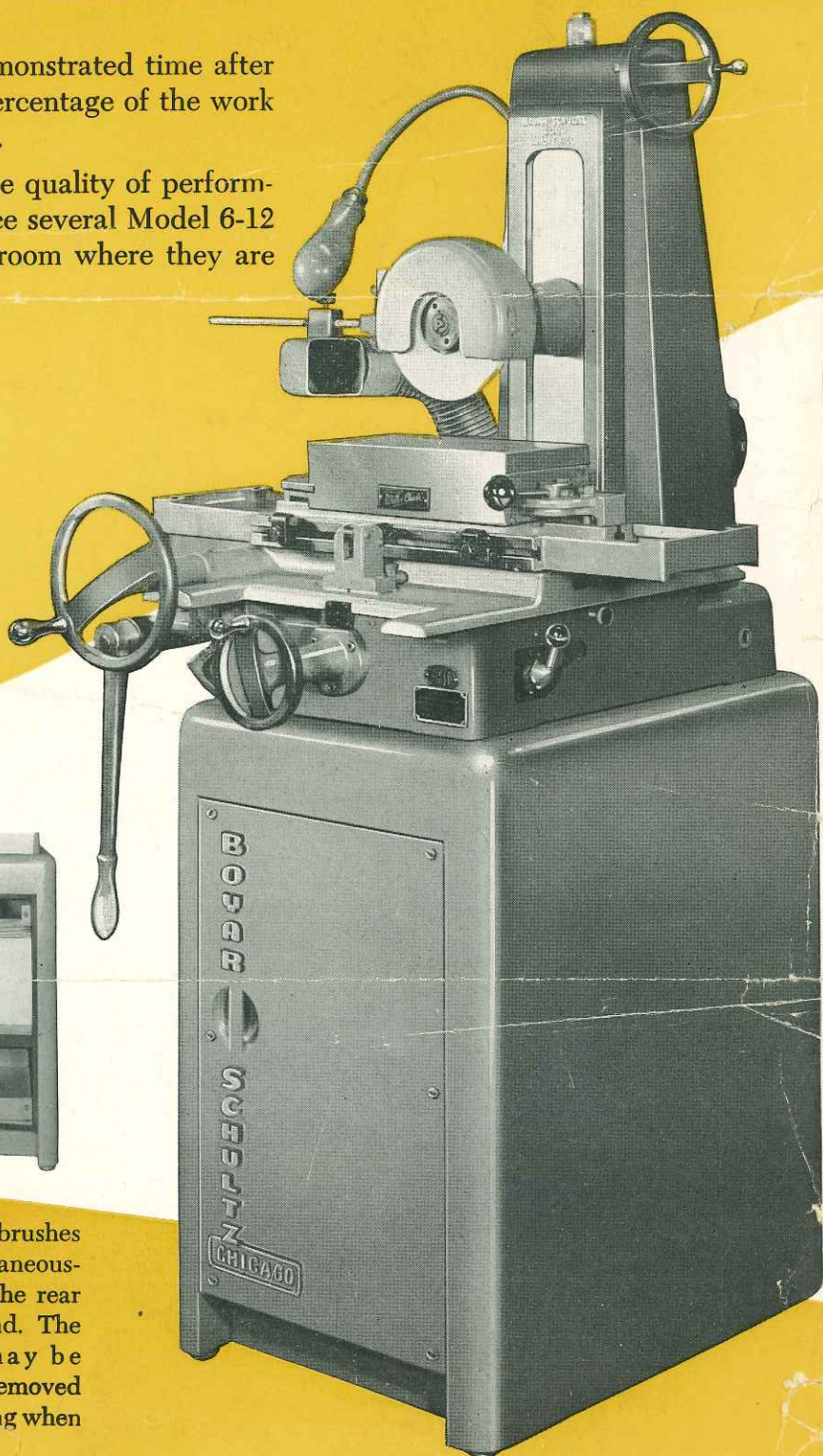
This excellent performance is the net result of unusually sturdy design, fine materials and the efforts of craftsmen who themselves, KNOW what a precision machine must do.

New Boyar-Schultz Dust Collector Unit

Furnished as optional equipment with Model 6-12 Surface Grinder. This Unit is fitted into the newly designed streamlined stand and is specially made for this Grinder. With it the grinder requires no more floor space.

Collector is made of 15 filter bags, treated for spark resistance. Bags are so arranged to direct the dust INTO the filter bags where it is trapped. In each filter bag is an individual Nylon fiber brush for removing dust that may cling to the inside surfaces, and dropping it into the removable

tray below. All 15 brushes are operated simultaneously by a handle at the rear of the grinder stand. The entire system may be quickly and easily removed for complete cleaning when necessary.



Machine performance

... SMALL MACHINE COST

CAPACITY — Boyar-Schultz Model 6-12 Surface Grinder, a 6 x 12 machine with actually 7 inch cross feed travel . . . one inch more than the indicated 6 inches. Longitudinal travel is 13 inches and vertical travel of spindle is 11½ inches.

SPINDLE—This is the “working unit,” the very heart of the machine, and is designed for very close tolerance, smooth finish grinding; supported at each end by over-size, pre-loaded, radial thrust, precision ball bearings. Spindle is motivated by a special ½ H.P. motor and connected to motor by precision made pulleys and hand selected 6 inch V Belt. Sturdily built, it will absorb the heavy demands put upon it during a long period of time.

TABLE — Best material, stress and strain relieved. Made with one Vee way and one Flat, ground and hand scraped for smooth operation.

LONGITUDINAL TABLE ACTION — Obtained by conventional hand wheel and also by Rapid Traverse Table Lever. Either may be disengaged while the other is in use. Large Hand Wheel provides extra leverage.

TABLE CARRIAGE — Travels on two flat precision and hand scraped ways, mounted on main grinder base. Cross feed travel is actuated by lead screw supported by needle bearings and located between table ways. Neoprene Accordion Sleeve seals lead screw from dirt and abrasive dust.

A Cross feed binding screw stops transverse motion when desired.

SPINDLE ELEVATING SCREW—Supported by Oilite bearings and operated by a set of carefully selected bevel gears. Responds instantly to slightest movement of hand wheel because radial thrust bearing provides constant tension between hand wheel shaft and vertical screw.

HAND WHEELS—placed to afford greatest convenience and are fitted with needle bearings for easy operation. Vertical feed graduated in half thousandths; cross feed in thousandths. Working parts enclosed for maximum protection from abrasive dust.

NEEDLE BEARINGS — Five sets of needle bearings are used in Model 6-12 Surface Grinder for long wear and easy operation.

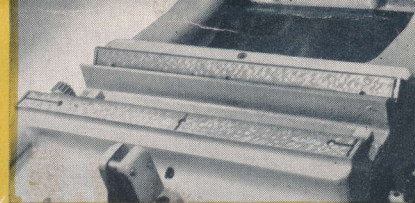
OILING OF TABLES — Only one oil cup is used for complete oiling of longitudinal and transverse system.

UNIVERSAL WHEEL ADAPTER furnished as standard equipment, with wheel puller. Extra adapters available from stock.

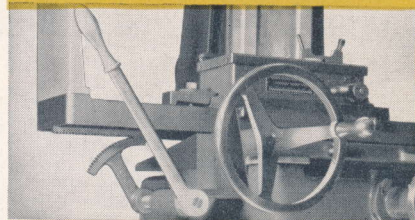
ADJUSTABLE LIGHT—Full visibility is possible with light which is adjustable to any position.

SPECIFICATIONS

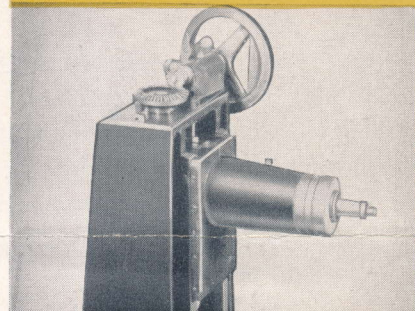
HEIGHT: (Bench Model).....	32"
HEIGHT: (Floor Model).....	62"
TABLE TRAVEL	
Longitudinal	13"
Horizontal	7"
VERTICAL TRAVEL	11½"
TABLE WORKING SURFACE.....	12"x5½"
T Slot for ⅜" Hold Down T Bolts	
GRINDING WHEEL.....	7" Diameter, ½"x1¼" Hole
SPINDLE SPEED.....	Approx. 3200 R.P.M.
HAND WHEEL GRADUATIONS	
Vertical	Half thousandths, (.0005)
Transverse.....	1 thousandths, (.001)
MOTOR.....	½ H.P.
LIGHT	110 Volt
FLOOR SPACE REQUIRED.....	43" wide, 38" deep
WEIGHT	600 Lbs. (Approx.)



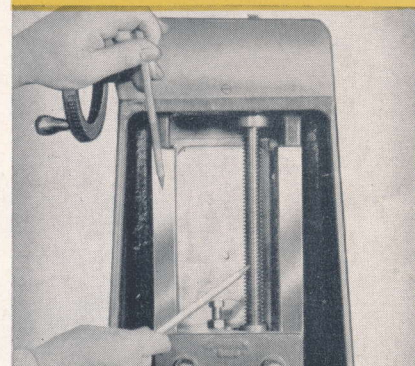
Oiling of table ways is accomplished with a single oil cup.



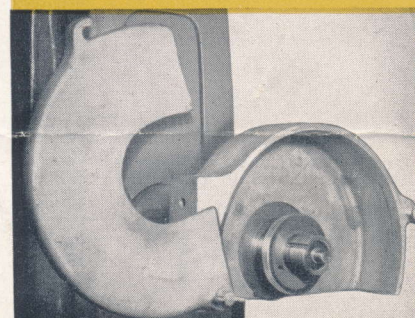
Rapid Traverse Table Lever. Used instead of hand wheel for fast operating and less fatigue.



Spindle accurately balanced and fitted with pre-loaded, super precision ball bearings.



Spindle Elevating Screw supported by oilite bearings.



Wheel Capacity 7 inch diameter, ½ inch thick, 1¼ inch diameter hole.



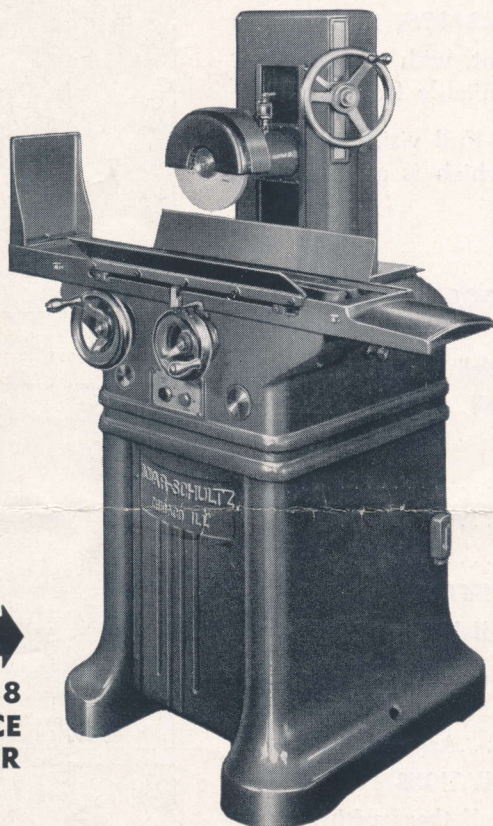
The New Improved streamlined Stand, attractive in appearance and sturdy.

BOYAR-SCHULTZ Toolroom GRINDERS

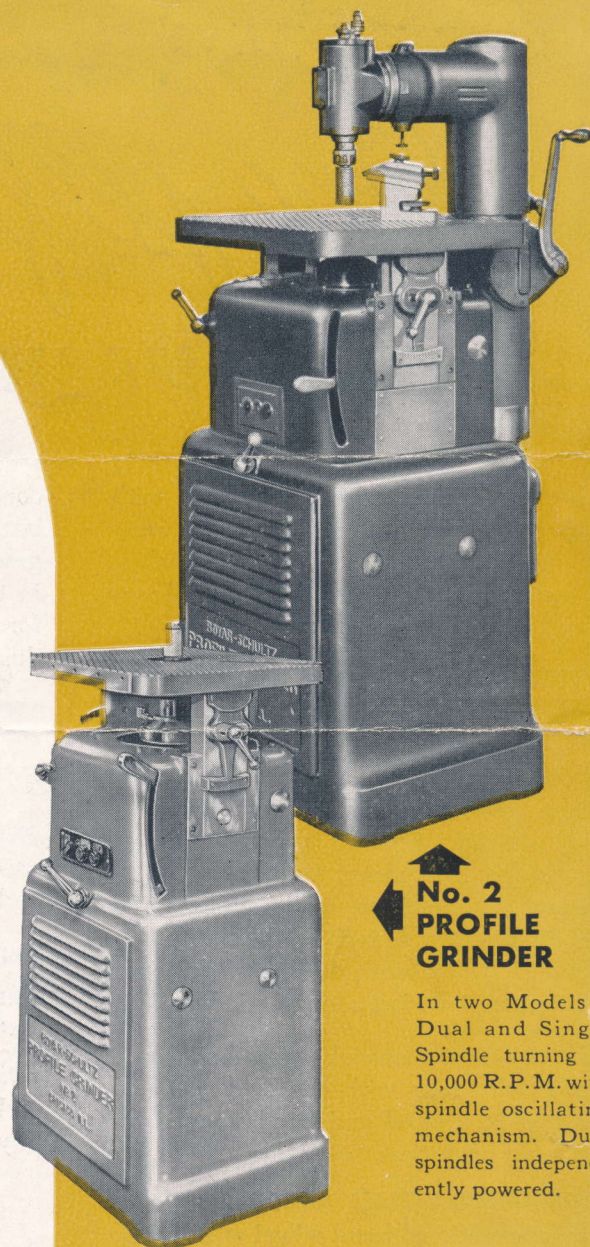
Wherever Boyar-Schultz Grinders have been installed, their design, quality of materials and unexcelled workmanship are quickly recognized.

In shops where accurate, close tolerance work must be turned out, skilled mechanics turn instinctively to Boyar-Schultz Grinders, knowing that these tools give fullest expression to their ability.

With Boyar-Schultz Grinders in your shop or tool room, you are sure you have the best your tool dollar can buy.



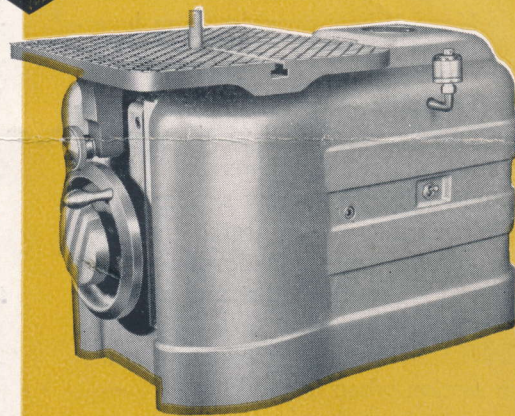
**No. 6-18
SURFACE
GRINDER**



**No. 2
PROFILE
GRINDER**

In two Models—
Dual and Single
Spindle turning a
10,000 R.P.M. with
spindle oscillating
mechanism. Dual
spindles independ-
ently powered.

**No. 1
PROFILE
GRINDER**



BOYAR-SCHULTZ CORPORATION

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CHICAGO 12, ILLINOIS